

AMENDMENTS TO THE SPECIFICATION:

On page 1, line 5, kindly delete the title and substitute the following title:

~~"ANTENNA CAP, ANTENNA CONNECTORS AND TELEPHONE LINE CONNECTORS  
FOR COMPUTER DEVICES UTILIZING RADIO AND MODEM CARDS"~~ A RADIO  
TRANSCIVER CARD COMMUNICATING IN A PLURALTY OF FREQUENCY BANDS

On page 1, line 11, after the heading "CROSS REFERENCE TO RELATED APPLICATIONS (CLAIMING BENEFIT UNDER 35 U.S.C. 120)," kindly insert the following new paragraphs:

This is a continuation of U.S. Application No. 09,006,566, filed January 13, 1998, which is a continuation of U.S. Application No. 258,285, filed June 10, 1994, now U.S. Patent No. 5,708,833, which is incorporated by reference in its entirety.

On page 1, line 26, after the heading "Related Case," kindly delete the following paragraph beginning "The present case..." and substitute the following paragraph:

The present case is related to U.S. Application Ser. No. 08/114,872 filed August 31, 1993 by S. Koenck (Attorney Docket No. 36767XZAB), now U.S. Patent No. [ ] 5,680,637, which is incorporated by reference in its entirety.

Kindly amend the heading on page 3, line 19 as follows:

Disclosure Summary of the Invention

On page 3, line 20, kindly add the following paragraph:

The invention is suitable for use in a portable computing device. In such an environment, a preferred form of the invention includes a card and a radio transceiver in the card arranged to communicate in a first frequency band and in a second frequency band different from the first frequency band. A first antenna in the card is operably

coupled to the radio transceiver, and a second antenna in the card is operably coupled to the radio transceiver. A microprocessor in the card is arranged to select one of the first and second antennas.

Kindly delete all the paragraphs in the "Disclosure of the Invention" section from page 3, line 20 to page 5, line 20.

In the Brief Description of the Drawings section, on page 5, line 24, before the paragraph beginning "Fig. 3 is ...", please insert the following new paragraphs:

Fig. 2A is a block diagram of a radio card containing a radio transceiver in accordance with the present invention;

Fig. 2B is a block diagram of a modem card containing a modem in accordance with the present invention;

Fig. 2C is a block diagram of a modem card containing a modem and a cellular telephone in accordance with the present invention.

In the Best Modes for Carrying Out the Invention section, kindly delete the paragraph at page 7 lines 10-14 beginning "Referring now to the drawings..." and substitute the following paragraph:

Referring now to the drawings wherein like reference numerals designate identical or corresponding parts throughout the several views, Fig. 1 shows a radio card (10) and a receiving device (11) built in accordance with the present invention. The radio card (10) has a housing (13) inside which is a complete operation radio transceiver (10A, Fig. 2A) ~~(not shown)~~. The receiving device (11) in this embodiment of the present invention uses a pair of opposed slots (14) to receive and guide the incoming radio card (10).

At page 8, line 13, before the paragraph beginning "The radio card (10) of Figs. 1-4 ...", please insert the following new paragraphs:

Referring to Fig. 2A, a radio card (10) is shown in accordance with the present invention. The radio card (10) has a housing (13) and contains a radio transceiver (10A). The radio transceiver (10A) is electrically connected to an antenna contact block (17), which may for example be a pair of antenna contacts (15, Fig. 2). The radio card (10) may optionally have additional antenna contacts (see 20, Fig. 1) electrically connected to the radio transceiver (10A). The radio transceiver (10A) is not shown in Fig. 2A to scale, nor are the relative positions of the radio transceiver (10A) or the antenna contact block (17) on the radio card (10) drawn for accuracy; Fig. 2A is a block diagram intended only to show functional blocks of the radio card (10).

Referring to Fig. 2B, a modem card (35) is shown in accordance with an embodiment of the present invention. The modem card (35) has a housing (36) and contains a modem (35A). The modem (35A) is electrically connected to a contact block (37), which may for example be a pair of contacts connecting to a telephone line or a cellular phone (not shown). The modem card (35) may optionally have additional antenna contacts (see 20, Fig. 1) electrically connected to the modem (35A). The modem (35A) is not shown in Fig. 2B to scale, nor are the relative positions of the modem (35A) or the contact block (37) on the modem card (35) drawn for accuracy; Fig. 2B is a block diagram intended only to show functional blocks of the modem card (35).

Referring to Fig. 2C, a modem card (35) is shown in accordance with another embodiment of the present invention. The modem card (35) has a housing (36) and

contains a modem (35A) and a cellular phone device (38). The cellular phone device (38) is electrically connected to a contact block (39), which may for example be a pair of contacts connecting to a cellular phone antenna (not shown). The modem card (35) may optionally have additional antenna contacts (see 20, Fig. 1) electrically connected to the modem (35A) or cellular phone (38). The modem (35A) and the cellular phone (38) are not shown in Fig. 2C to scale, nor are the relative positions of the modem (35A), cellular phone (38) or contact block (39) on the modem card (35) drawn for accuracy; Fig. 2C is a block diagram intended only to show functional blocks of the modem card (35).

Kindly delete the paragraph at page 8, lines 13-17 beginning "The radio card (10)..." and substitute the following new paragraph:

The radio card (10) of Figs. 1-4 might also be a modem card (35, Figs. 2B and 2C) ~~(not shown)~~. In this embodiment, the connections would be the same as previously described with the only difference being that instead of the contacts connecting the modem card to a radio antenna, the modem card would be connected to a traditional telephone line, a cellular phone or an antenna for a cellular phone if the cellular phone was contained within the modem card. Any necessary coupling transformer may be built within the computer terminal.

On page 9, line 24 – page 10, line 1, kindly delete the paragraph beginning "Referring now to Fig. 27..." and ending "switching device" and substitute the following new paragraph:

Referring now to FIG. 27, a circuit diagram (280) for antenna switching matrix is shown. The circuit (280) allows a radio card to be connected to one of two or more

internal or connected antennas of a portable computer device. The circuit shown allows antennas ~~(305 and 306)~~ (288 and 289) for one of two frequency bands to be selected. The design can be extended to allow additional bands to be added by appropriate selection of a switching device.

Kindly delete the paragraph at page 11, lines 14-18 beginning "Referring now to Figs. 14, 15 and 16,..." and substitute the following paragraph:

Referring now to Figs. 14, 15 and 16, a computer device (111) for utilizing a radio card (110) built in accordance with the present invention is shown. The computer device (111) has a housing (112). Inside the radio card (110) is a completely operation radio transceiver (10A, Fig. 2A) ~~(not shown)~~. The computer device (111) has an opening (114) in the housing (112) through which the radio card (110) can be inserted into the computer device (112). In the present embodiment of the invention, the receiving means for the computer device is a slot (115).

Kindly delete the paragraph from page 11, line 19 to page 12, line 2 beginning "When the radio card (110)..." and substitute the following new paragraph:

When the radio card (110) is inserted into the slot (115) in the computer device (111) an interface between the radio card (110) and the computer device (111) is produced. The computer device (111) has a plurality of pins (not shown) which form the plug or male portion of a connector. The radio card (110) has a corresponding plurality of sockets or holes (not shown) which form the receptacle or female portion of the connector and which engage the pins. The pins are connected internally and electrically to the computer device (111) by a series of electrical connections such as wires, printed circuit traces or electrical ribbon. The holes in the radio card (110) are

electrically connected to the radio transceiver (10A, Fig. 2A). When the pins engage the holes, electrical signals can be exchanged between the radio transceiver (10A, Fig. 2A) inside the radio card (110) and the computer device (111). The electrical signals can be in the form of information exchange, power supply or both. The radio card (110) includes antenna contacts (117) to engage corresponding radio antenna contacts that are connected to an appropriate antenna.

Kindly delete the paragraph at page 12, lines 3-7 beginning “The computer device (111)...” and substitute the following paragraph:

The computer device (111) includes a cap (120) which is designed to matingly engage the opening (115) in the housing (112) of the computer device (111) and thereby cover the slot (115) used to receive the radio card (110). A flexible band (122) attaches the cap ~~(120)(122)~~ to the housing (112) of the computer device (111). One end of the band (122) is connected to the cap ~~(120)(122)~~ while the other end is attached to the housing (112). A handle (124) helps assist the removal of the cap (120) from the housing (112) of the computer device (111).

Kindly delete the paragraph from page 12, line 23 to page 13, line 1 beginning “Referring now to Figs. 19 and 20,...” and substitute the following paragraph:

Referring now to Figs. 19 and 20, the cap ~~(134)(132)~~ is shown engaged with the housing (132) of the computer device (130). The cap (134) includes an outwardly extending lip ~~(135)(136)~~ which helps to environmentally seal the opening in the housing (132) preventing harmful material from the outside such as dust or moisture from reaching the radio card (140) which has been inserted into the computer device (130).